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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,045	06/24/2003	Michelle M. Hanna	2072.0010003	8156
26111 7	11/01/2005		EXAMINER	
	SSLER, GOLDSTEIN &	KIM, YO	KIM, YOUNG J	
	1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			PAPER NUMBER
			1637	

DATE MAILED: 11/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
		10/602,045	HANNA, MICHELLE M.			
	Office Action Summary	Examiner	Art Unit			
		Young J. Kim	1637			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHICI - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR RI HEVER IS LONGER, FROM THE MAILIN sions of time may be available under the provisions of 37 Cf (IX) (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory p to to reply within the set or extended period for reply will, by a pply received by the Office later than three months after the ad patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a n. eriod will apply and will expire SIX (6) MON statute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1) 🗌 🖠	Responsive to communication(s) filed on _					
•		This action is non-final.				
,						
(closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositio	on of Claims		•			
4)⊠ Claim(s) <u>1-12,85-97,100,101,115-129 and 135-150</u> is/are pending in the application.						
4	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) 🗌	5) Claim(s) is/are allowed.					
	Claim(s) is/are rejected.					
•	Claim(s) is/are objected to.					
8)⊠	Claim(s) <u>1-12,85-97,100,101,115-129 and</u>	<u>// 135-150</u> are subject to restric	ction and/or election requirement.			
Application	on Papers					
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
a)[12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* S	ee the attached detailed Office action for	•	received.			
·						
Attachment	(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Cher:						

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DETAILED ACTION

Preliminary Remark

Cancellation of claims 13-84, 98, 99, 102-114, and 130-134; and addition of claims 136-150 in the preliminary amendment filed on June 24, 2003 is acknowledged.

Claim numbers which are bolded, italicized and underlined are multiple-dependent claims.

Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-12, 85-97, <u>100</u>, 101, 115-125, <u>126-129</u>, <u>135-137</u>, <u>140-150</u>, drawn to a method for detecting multiple reiterated oligonucleotides from a target polynucleotide employing a polymerase, classified in class 435, subclass 6. If this Group is elected, said group is subject to <u>further</u> species requirement.
- II. Claims 101, <u>126-129</u>, and <u>135</u>, drawn to a method for detecting multiple abortive oligonucleotide transcripts from a target polynucleotide, classified in class 435, subclass 6.
- III. Claims 135, 139, and <u>140-150</u>, drawn to a method of detecting multiple reiterated oligonucleotides from a target polynucleotide involving abortive promoter cassette, classified in class 435, subclass 6.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-III are unrelated among the groups. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the method of Group III involves a structurally different element (abortive promoter cassette) for generating a multiple reiterative oligonucleotide transcripts than the methods of Groups I and II, the

search of which would not be coextensive in scope resulting in an undue search burden and examination. Such situation is analogous to many methods of nucleic acid amplification (such as PCR, LCR, NASBA, SDA, etc.) While all of these methods result in an amplification of a target sequence, the method employs different reagents, conditions, products, resulting in patentably distinct and independent inventions, where if examined together, would result in an enormous search burden. With regard to the invention of Group II, the method involves a completely different step of terminating the oligonucleotide transcription – nucleotide deprivation. Such method would not be able to control at what nucleotide the transcription is to halt as in the method of Group I which involves a nucleotide which is a terminator and the product produced by the method would be materially affected by such a method.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Additional Species Requirement for Group I

This application contains claims directed to the following patentably distinct species of the claimed invention: Group I contains the below-described species of detecting multiple reiterative oligonucleotide transcripts:

- a) method involving RNA polymerase (claims 1-12, <u>100</u>, 115-125, <u>126-129</u>, and <u>135</u>); and
- b) method involving DNA polymerase (claim 90).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Currently, claims 85-89, 91-97, <u>100</u>, and <u>135-137</u> are generic.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

A telephone call was not made to request an oral election to the above restriction requirement due to the complex nature of the requirement (MPEP § 812.01).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Inquiries

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Young J. Kim whose telephone number is (571) 272-0785. The Examiner is on flex-time schedule and can best be reached from 8:30 a.m. to 4:30 p.m. The Examiner can also be reached via e-mail to Young.Kim@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route.

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If attempts to reach the Examiner by telephone are unsuccessful, the Primary Examiner in charge of the prosecution, Dr. Kenneth Horlick, can be reached at (571) 272-0784. If the attempts to reach the above Examiners are unsuccessful, the Examiner's supervisor, Dr. Gary Benzion, can be reached at (571) 272-0782.

Papers related to this application may be submitted to Art Unit 1637 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 CFR 1.6(d)). NOTE: If applicant does submit a paper by FAX, the original copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED, so as to avoid the processing of duplicate papers in the Office. All official documents must be sent to the Official Tech Center Fax number: (571) 273-8300. For Unofficial documents, faxes can be sent directly to the Examiner at (571) 273-0785. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Young J. Kim Patent Examiner

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